

PRODUCT PROPERTIES:

UNISEAL-100 made from high performance modified polymer strips. The swelling action is the result between water and hydrophilic groups which are part of the UNISEAL-100 molecular structure. Expansion of the water stop creates a positive seal against the face of the concrete joint and prevents the water entry into the structure through the protected joint.

Active protection - UNISEAL-100 hydrophilic water top swell in contact with water to form an effective compression joints. Simple application and jointing techniques.

Slow expansion rate to prevent damage to freshly placed concrete during curing. Retains original shape after repeated expansion and contraction. Swelling properties unaffected by long term wet/dry cycling. Sustains effective seal in wet conditions.

TECHNICAL DATA:

Uniseal-100	
TYPE	Uniseal-100
Appearance	Polymer rubber strips
Color	BLUE/Red
Solid Contents	100%
Service temperature	-30-50°C
Tensile strength	20 Kg f/cm2
Elongation	450% above
Expansion volume rate	300% above
Water pressure resistant	5 Bar
Resistant to saline water	Resistant
Density (20°C)	1.20 g/cm3

FIELD OF APPLICATION:

UNISEAL-100 can be applied against existing concrete and are simply installed by nailing or using a hydrophilic adhesive. In contact with water, hydrophilic strips react and swell by up to 300% of their original dimensions to form a compression seal. Hydrophilic strips are suitable for installation in low movement construction joints. UNISEAL-100 is used primarily for foundation walls slabs, slabs-on-grade, precast wall panels, manholes, pipe connections, box culverts, utility and wells, and portable water tank

DIRECTION OF USE:

METHOD OF USE

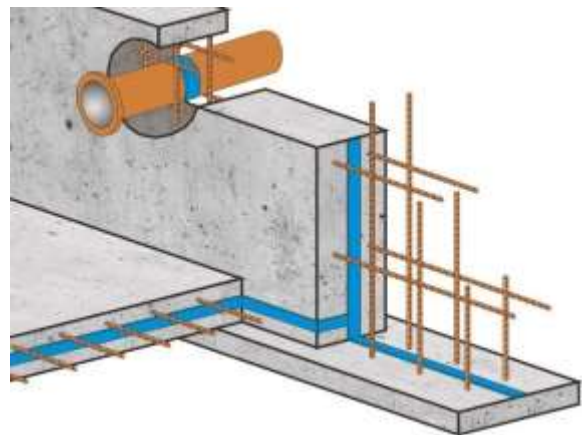
Long-term durability and function can only be achieved with good preparation to ensure that water cannot by-pass the water stop. It is recommended that

Concrete substrates have a minimum compressive strength of 20 N/mm, and at least 75mm of concrete cover in all directions of the hydrophilic water stop. Ensure the concrete surfaces where UNISEAL-100 will be placed are smooth, clean and free from contamination such as dust, oil, grease, and organic growth & release agents. For fresh concrete we recommended forming a groove in the middle of the joint using a suitable timber strip. After the concrete has hardened, remove the strip to reveal the groove in which the UNISEAL-100 can sit with minimal preparation.

APPLICATION:

Brush apply a continuous bed of adhesive onto the prepared substrate along the proposed line of the water stop OR use nail for fixing of UNISEAL-100.

It is highly recommended to also apply a thin layer of adhesive to the side of water bar that will bond to the concrete. Wait for 5-20 minutes depending on the environment, to allow the solvent to fully evaporate before firmly pressing the elements together to bond with the adhesive. Maneuver the UNISEAL-100 to its final position within a few minutes of bonding and remove excess material before it dries. It is not recommended to nail or shot-fire the hydrophilic water stop to the concrete substrate. At corners and intersections, simply butt join the water stop together ensuring a tight joint between the profiles. No hot welding is required for Uniseal-100.



PACKAGING

Supplied in: 20 mm x 10 mm (ROLLS)
Storage: Dry; Frost free, out of direct sunlight
Shelf life: 24 months
Hazard class: No dangerous goods, Observe Material MSDS